

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An anti-theft apparatus comprising:

an acceleration detection unit mounted on a vehicle for detecting acceleration in a predetermined direction, whose detection result in a first detection sensitivity is used for a predetermined vehicle control;

a sensitivity switching unit for switching the detection sensitivity of the acceleration detection unit to a second detection sensitivity which is different from the first detection sensitivity when it received an anti-theft instruction for instructing prevention of theft; and

a theft judgment unit for judging whether or not the vehicle is in a theft state on the basis of the detection result of the acceleration detection unit which was switched to the second detection sensitivity by the sensitivity switching unit;

wherein the acceleration detection unit is an acceleration sensor which was disposed in a front collision air bag ECU, and/or an acceleration sensor which was disposed in a side collision air bag ECU, ~~an acceleration sensor which is used for electronic control suspension, and/or an acceleration sensor which is used for a vehicle stability control system.~~

2. (Original) The anti-theft apparatus according to claim 1, wherein:

the sensitivity switching unit switches respective detection sensitivities of a plurality of acceleration detection units which are mounted on the vehicle when it receives the anti-theft instruction; and

the theft judgment unit judges whether or not the vehicle is in the theft state on the basis of respective detection results of the plurality of acceleration detection units.

3. (Original) The anti-theft apparatus according to claim 2,
wherein the theft judgment unit judges that the vehicle is in the theft state, in
case that acceleration which was detected by any one of acceleration detection units out of the
plurality of acceleration detection units exceeds a predetermined threshold value.
4. (Original) The anti-theft apparatus according to claim 2,
wherein the theft judgment unit judges that the vehicle is in the theft state, in
case that respective accelerations which were detected by a plurality of acceleration detection
units for detecting acceleration in the same direction out of the plurality of acceleration
detection units exceed a predetermined threshold value.
5. (Original) The anti-theft apparatus according to claim 1,
wherein the theft judgment unit judges whether or not the vehicle is in the theft
state on the basis of inclination of the vehicle.
6. (Original) The anti-theft apparatus according to claim 1,
wherein the theft judgment unit judges whether or not the vehicle is in the theft
state on the basis of vibration of the vehicle.
7. (Original) The anti-theft apparatus according to claim 6,
wherein the theft judgment unit judges whether or not the vehicle is in the theft
state on the basis of a detection result of an acceleration detection unit which was disposed at
an outer edge part of the vehicle.
8. (Original) The anti-theft apparatus according to claim 6,
wherein the sensitivity switching unit switches each detection sensitivity in
such a manner that the second detection sensitivity of the acceleration detection unit which
was disposed at a central part of the vehicle becomes higher than the second detection
sensitivity of the acceleration detection unit which was disposed at the outer edge part of the
vehicle.

9. (Canceled)
10. (Original) The anti-theft apparatus according to claim 1, further comprising
a noise elimination unit for eliminating noise from the detection result of the
acceleration detection unit,
wherein the theft judgment unit judges whether or not the vehicle is in the theft
state on the basis of the detection result from which noise was eliminated by the noise
elimination unit.
11. (Original) The anti-theft apparatus according to claim 10,
wherein the noise elimination unit eliminates the noise by switching a cutoff
frequency of a filter which is additionally disposed in the acceleration detection unit to a
frequency which corresponded to theft judgment of the vehicle.
12. (Previously Presented) An anti-theft apparatus comprising:
an acceleration detection unit mounted on a vehicle for detecting acceleration
in a predetermined direction, whose detection result in a first detection sensitivity is used for
a predetermined vehicle control;
a sensitivity switching unit for switching the detection sensitivity of the
acceleration detection unit to a second detection sensitivity which is different from the first
detection sensitivity when it received an anti-theft instruction for instructing prevention of
theft;
a theft judgment unit for judging whether or not the vehicle is in a theft state
on the basis of the detection result of the acceleration detection unit which was switched to
the second detection sensitivity by the sensitivity switching unit; and
a noise elimination unit for eliminating noise from the detection result of the
acceleration detection unit,

wherein the theft judgment unit judges whether or not the vehicle is in the theft state on the basis of the detection result from which noise was eliminated by the noise elimination unit,

wherein the noise elimination unit eliminates the noise, by periodically integrating the detection result of the acceleration detection unit.

13. (Previously Presented) An anti-theft apparatus comprising:

an acceleration detection unit mounted on a vehicle for detecting acceleration in a predetermined direction, whose detection result in a first detection sensitivity is used for a predetermined vehicle control;

a sensitivity switching unit for switching the detection sensitivity of the acceleration detection unit to a second detection sensitivity which is different from the first detection sensitivity when it received an anti-theft instruction for instructing prevention of theft;

a theft judgment unit for judging whether or not the vehicle is in a theft state on the basis of the detection result of the acceleration detection unit which was switched to the second detection sensitivity by the sensitivity switching unit; and

a noise elimination unit for eliminating noise from the detection result of the acceleration detection unit,

wherein the theft judgment unit judges whether or not the vehicle is in the theft state on the basis of the detection result from which noise was eliminated by the noise elimination unit,

wherein the noise elimination unit eliminates the noise by switching a cutoff frequency of a filter which is additionally disposed in the acceleration detection unit to a frequency which corresponded to theft judgment of the vehicle, and by periodically integrating the detection result of the acceleration detection unit.

14. (Original) The anti-theft apparatus according to claim 1,
wherein the acceleration detection unit is contained in a predetermined unit
together with various devices, and power is supplied thereto from a battery which was
mounted on the vehicle or a cell which was contained in the predetermined unit, in the same
manner as in the various devices;

the acceleration detection unit includes a power supply control unit for
controlling the power source only to the acceleration detection unit in the predetermined unit;
and

the theft judgment unit judges whether or not the vehicle is in the theft state on
the basis of the detection result of the acceleration detection unit which was controlled so as
to supply the power source by the power supply control unit.

15. (Original) The anti-theft apparatus according to claim 14,
wherein the power supply control unit controls so as to intermittently supply
the power source from the battery or cell to the acceleration detection unit.

16. (Original) The anti-theft apparatus according to claim 14,
wherein the power supply control unit controls so as to stop supply of the
power source to the acceleration detection unit, in case that a voltage of the battery or cell
became a predetermined voltage and below.

17. (Original) The anti-theft apparatus according to claim 1, further comprising
a monitoring unit for monitoring a state of the vehicle and for sending out the
anti-theft instruction,

wherein the sensitivity switching unit switches detection sensitivity of the
acceleration detection unit to detection sensitivity which is available for theft judgment of the
vehicle, when it receives the anti-theft instruction which was sent out by the monitoring unit.

18. (Original) The anti-theft apparatus according to claim 17,
wherein the monitoring unit monitors an ON-OFF state of an ignition key, and
sends out the anti-theft instruction, in case that the ignition key was turned to the OFF state.

19. (Currently Amended) An anti-theft method comprising:
an acceleration detection step of detecting acceleration in a predetermined
direction, a result of the detection in a first detection sensitivity being used for a
predetermined vehicle control;
a sensitivity switching step of switching the detection sensitivity of the
acceleration detection step to a second detection sensitivity which is different from the first
detection sensitivity when an anti-theft instruction for instructing prevention of theft was
received; and

a theft judgment step of judging whether or not the vehicle is in a theft state on
the basis of the detection result of the acceleration detection step which was switched to the
second detection sensitivity by the sensitivity switching step;

wherein the acceleration detection unit is an acceleration sensor which was
disposed in a front collision air bag ECU, and/or an acceleration sensor which was disposed
in a side collision air bag ECU, ~~an acceleration sensor which is used for electronic control
suspension, and/or an acceleration sensor which is used for a vehicle stability control system.~~

20. (Currently Amended) An anti-theft program for having a computer executed
an acceleration detection step of detecting acceleration in a predetermined
direction, a result of the detection in a first detection sensitivity being used for a
predetermined vehicle control;
a sensitivity switching step of switching the detection sensitivity of the
acceleration detection step to a second detection sensitivity which is different from the first

detection sensitivity when an anti-theft instruction for instructing prevention of theft was received; and

a theft judgment step of judging whether or not the vehicle is in a theft state on the basis of the detection result of the acceleration detection step which was switched to the second detection sensitivity by the sensitivity switching step;

wherein the acceleration detection unit is an acceleration sensor which was disposed in a front collision air bag ECU, and/or an acceleration sensor which was disposed in a side collision air bag ECU, ~~an acceleration sensor which is used for electronic control suspension, and/or an acceleration sensor which is used for a vehicle stability control system.~~

21-23. (Canceled)

24. (Currently Amended) An anti-theft apparatus mounted on a vehicle that includes an acceleration detection unit for detecting acceleration in a predetermined direction, the anti-theft apparatus comprising

a theft judgment unit for judging whether or not the vehicle is in a theft state on the basis of the detection result of the acceleration detection unit,

wherein the acceleration detection unit includes a sensitivity switching unit for switching the detection sensitivity of the acceleration detection unit to a second detection sensitivity which is different from the first detection sensitivity and the acceleration detection unit is an acceleration sensor which was disposed in a front collision air bag ECU, and/or an acceleration sensor which was disposed in a side collision air bag ECU, ~~an acceleration sensor which is used for electronic control suspension, and/or an acceleration sensor which is used for a vehicle stability control system.~~